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ABSTRACT

A multi-layered (composite) flexible packaging material used to envelop either ferrous or non-ferrous metal assets for the purpose of preventing corrosion during transport or long-term storage and preservation. An aluminum foil (barrier layer) is sandwiched between outer layer(s) of flexible film(s) that provide puncture, abrasion and tear resistance and the inner sealant layer known as Cortec VpCI®-126 film (or its equivalent), which provides the corrosion preventive characteristics of the composite. The foil layer; which provides maximum barrier capacities against the transmission of water vapor and other gasses, prevents the out-gassed corrosion inhibiting VpCI vapor from escaping from within an enclosure while simultaneously preventing the ingress of any external gasses. The composite effectively performs for long periods (numerous years) even in extremely corrosive environments and will maintain a vacuum; further enhancing its value. Significant performance improvement is achieved compared to utilization of non-foil-bearing composites for corrosion prevention.